

XtendFlex Soybean Herbicide Recommendations for ESA Counties (Brooklyn, WI 2022)

Trial Information

Trial Sponsor(s): Bayer

Objective: Evaluate herbicide programs to provide recommendations for XtendFlex soybean weed management in counties under restrictions from the endangered species act (ESA)

Crop: XtendFlex Soybean

Variety: AG20XF1

Weed species (pressure): glyphosate-R waterhemp(moderate-high)
velvetleaf (moderate)
fall panicum (low-moderate)

Herbicide Application(s): PRE – 5/24
POST – 6/29 (V4 soybean)

For the full report see trial #22-BRO-SB22 in the [2022 Wisconsin Weed Science Research Report](#)



Cropping Systems Weed Science
UNIVERSITY OF WISCONSIN-MADISON



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Trt #	Herbicide (rate acre ⁻¹)	Injury ^c (%)		Waterhemp			Velvetleaf		Fall Panicum		Yield ^b bu acre ⁻¹
		7/7	7/13	6/14	6/29	9/29	6/29	9/29	6/29	9/29	
1	Untreated Check	0	0	0	0	0	0	0	0	0	40 b
Two-Pass – PRE (5/24) <i>fb</i> POST (6/29)											
2	Fierce EZ (6 fl oz) <i>fb</i> Liberty (32 fl oz) + MON 301668 (30 fl oz) + AMS**	4.0	4.5	100	95	100	99	100	93	100	76 a
3	Fierce EZ (6 fl oz) + XtendiMax (22 fl oz)* <i>fb</i> Liberty (32 fl oz) + MON 301668 (30 fl oz) + AMS**	4.8	7.8	100	91	100	96	100	91	100	76 a
4	Fierce EZ (6 fl oz) <i>fb</i> Liberty (32 fl oz) + Roundup PM3 (30 fl oz) + MON 301668 (30 fl oz) + AMS**	4.5	7.5	100	92	99	96	100	94	100	76 a
5	Fierce EZ (6 fl oz) + XtendiMax (22 fl oz)* <i>fb</i> Liberty (32 fl oz) + Roundup PM3 (30 fl oz) + MON 301668 (30 fl oz) + AMS**	5.0	5.8	100	91	99	98	100	93	100	74 a
6	Fierce EZ (6 fl oz) <i>fb</i> Warrant Ultra (48 fl oz) + Liberty (32 fl oz) + AMS**	7.8	14.0	100	90	100	98	100	90	98	75 a
7	Fierce EZ (6 fl oz) + XtendiMax (22 fl oz)* <i>fb</i> Warrant Ultra (48 fl oz) + Liberty (32 fl oz) + AMS**	8.3	13.3	100	95	99	96	100	90	100	75 a
8	Fierce EZ (6 fl oz) <i>fb</i> Warrant Ultra (48 fl oz) + Liberty (32 fl oz) + Roundup PM3 (30 fl oz) + AMS**	8.0	14.0	99	89	100	96	100	92	100	74 a
9	Fierce EZ (6 fl oz) + XtendiMax (22 fl oz)* <i>fb</i> Warrant Ultra (48 fl oz) + Liberty (32 fl oz) + Roundup PM3 (30 fl oz) + AMS**	7.5	14.8	100	92	99	97	100	90	100	75 a
		LSD ($\alpha=0.10$)	1.5	2.2	ns	ns	ns	ns	ns	ns	5
		p value	<.001	<.001	0.284	0.623	0.713	0.576	0.459	0.824	<0.001

^aVisual control from 70-100% is illustrated on a color scale with green representing greater weed control values.

^bYield values with the same letter are not significantly different.

^cCrop injury symptoms included leaf necrosis (burn) and leaf crinkling.

*All PRE applications of XtendiMax included 20 fl oz/a VaporGrip Xtra, a volatility reducing agent.

**Liquid AMS was applied at 2.5% v/v

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Plot pictures taken on 6/28

35 days after the PRE application

The day before the POST application

The number in the upper right-hand corner is the average %
waterhemp control of 4 replications

35 days after PRE (6/28)

Untreated Check

0%



35 days after PRE (6/28)

PRE: 6 fl oz Fierce EZ

92%



35 days after PRE (6/28)

PRE: 6 fl oz Fierce EZ

92%



35 days after PRE (6/28)

PRE: 6 fl oz Fierce EZ + 22 fl oz XtendiMax

92%



35 days after PRE (6/28)

PRE: 6 fl oz Fierce EZ + 22 fl oz XtendiMax

92%



XtendFlex Soybean Herbicide Recommendations for ESA Counties (Brooklyn, WI 2022)

Plot pictures taken on 7/13

50 days after the PRE application
14 days after the POST application

50 days after PRE (7/13)

Untreated Check



14 days after POST (7/13)

PRE: 6 fl oz Fierce EZ fb

POST: 32 fl oz Liberty + 30 fl oz MON 301668 + AMS



14 days after POST (7/13)

PRE: 6 fl oz Fierce EZ + 22 fl oz XtendiMax *fb*

POST: 32 fl oz Liberty + 30 fl oz MON 301668 + AMS



14 days after POST (7/13)

PRE: 6 fl oz Fierce EZ fb

POST: 32 fl oz Liberty + 30 fl oz Roundup PM3 + 30 fl oz MON 301668 + AMS



14 days after POST (7/13)

PRE: 6 fl oz Fierce EZ + 22 fl oz XtendiMax *fb*

POST: 32 fl oz Liberty + 30 fl oz Roundup PM3 + 30 fl oz MON 301668 + AMS



14 days after POST (7/13)

PRE: 6 fl oz Fierce EZ fb

POST: 48 fl oz Warrant Ultra + 32 fl oz Liberty + AMS



14 days after POST (7/13)

PRE: 6 fl oz Fierce EZ + 22 fl oz XtendiMax *fb*

POST: 48 fl oz Warrant Ultra + 32 fl oz Liberty + AMS



14 days after POST (7/13)

PRE: 6 fl oz Fierce EZ fb

POST: 48 fl oz Warrant Ultra + 32 fl oz Liberty + 30 fl oz Roundup PM3 + AMS



14 days after POST (7/13)

PRE: 6 fl oz Fierce EZ + 22 fl oz XtendiMax *fb*

POST: 48 fl oz Warrant Ultra + 32 fl oz Liberty + 30 fl oz Roundup PM3 + AMS



XtendFlex Soybean Herbicide Recommendations for ESA Counties (Brooklyn, WI 2022)

Plot pictures taken on 9/29

The number in the upper right-hand corner is the average % waterhemp control of 4 replications

Soybean harvest (9/29)

Untreated Check

0%



Soybean harvest (9/29)

PRE: 6 fl oz Fierce EZ fb

POST: 32 fl oz Liberty + 30 fl oz MON 301668 + AMS

100%



Soybean harvest (9/29)

PRE: 6 fl oz Fierce EZ + 22 fl oz XtendiMax *fb*

POST: 32 fl oz Liberty + 30 fl oz MON 301668 + AMS

100%



Soybean harvest (9/29)
PRE: 6 fl oz Fierce EZ fb
POST: 32 fl oz Liberty + 30 fl oz Roundup PM3 + 30 fl oz MON 301668 + AMS 99%



Soybean harvest (9/29)

PRE: 6 fl oz Fierce EZ + 22 fl oz XtendiMax *fb*

99%

POST: 32 fl oz Liberty + 30 fl oz Roundup PM3 + 30 fl oz MON 301668 + AMS



Soybean harvest (9/29)

PRE: 6 fl oz Fierce EZ fb

POST: 48 fl oz Warrant Ultra + 32 fl oz Liberty + AMS

100%



Soybean harvest (9/29)

PRE: 6 fl oz Fierce EZ + 22 fl oz XtendiMax *fb*

POST: 48 fl oz Warrant Ultra + 32 fl oz Liberty + AMS

99%



Soybean harvest (9/29)
PRE: 6 fl oz Fierce EZ fb
POST: 48 fl oz Warrant Ultra + 32 fl oz Liberty + 30 fl oz Roundup PM3 + AMS 100%



Soybean harvest (9/29)

PRE: 6 fl oz Fierce EZ + 22 fl oz XtendiMax *fb*

99%

POST: 48 fl oz Warrant Ultra + 32 fl oz Liberty + 30 fl oz Roundup PM3 + AMS

